



Attorney Docket No. 42390.P9738

Patent

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Patent Application of:

Xia Dai et al.

Application No. 10/027,939

Filed: December 20, 2001

For: **METHOD AND APPARATUS FOR  
ENABLING A LOW POWER MODE  
FOR A PROCESSOR**

Examiner: Stefan Stoynov

Art Unit: 2116

Mail Stop RCE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Enclosed is a copy of Information Disclosure Citation Form PTO-1449 together with copies of the documents cited thereon. It is respectfully requested that the cited documents be considered, and that the enclosed copy of Information Disclosure Citation Form PTO-1449 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant.

Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

**CERTIFICATE OF MAILING**

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By: Anne Collette  
Anne Collette

Date: May 2, 2005

Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being submitted under one of the following (as indicated by an "X" to the left of the appropriate paragraph):

  X   37 C.F.R. §1.97(b).

       37 C.F.R. §1.97(c). If so, then enclosed with this Information Disclosure Statement is one of the following:

       A statement pursuant to 37 C.F.R. §1.97(e) or

       A check for \$180.00 for the fee under 37 C.F.R. § 1.17(p).

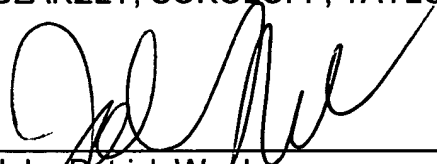
       37 C.F.R. §1.97(d). If so, then enclosed with this Information Disclosure Statement are the following:

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Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP



Dated: May 2, 2005

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John Patrick Ward  
Reg. No. 40,216

12400 Wilshire Blvd.  
Seventh Floor  
Los Angeles, CA 90025-1030  
(408) 720-8300

Substitute for Form 1449A/PTO (Modified)

Complete if Known

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number	10/027,939
Filing Date	December 20, 2001
First Named Inventor:	Xia Dai
Group Art Unit	2116
Examiner Name	Stefan Stoynov
Attorney Docket Number	42390.P9738

 Sheet **1** of **2**

## U.S. PATENT DOCUMENTS

Exam. Initial*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Code <sup>2</sup>	Kind (If known)			
		6,347,379	B1	Dai et al.	09-25-1998	
		6,704,880	B2	Dai et al.	03-09-2004	
		5,801,585		Roohparvar	09-01-1998	
		6,163,044		Manning	12-19-2000	
		6,333,874	B2	Yamauchi	12-25-2001	
		6,031,782		Kobashi et al.	02-29-2000	
		6,069,519		Song	05-30-2000	
		5,511,203		Wisor et al.	04-23-1996	
		5,481,731		Conary et al.	01-02-1996	
		5,761,715		Takahashi	06-02-1998	
		5,581,500		D'Souza	12-03-1996	
		5,189,647		Suzuki et al.	02-23-1993	
		5,712,589		Afek et al.	01-27-1998	
		5,970,007		Shiratake	10-19-1999	
		5,530,932		Carmean et al.	06-25-1996	
		6,552,601	B1	Burr	04-22-2003	
		5,333,571		Teraoka et al.	12-25-2001	
		5,656,946		Sim	08-12-1997	

## OTHER ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		International Search Report for International Application No. PCT/US02/40706, Attorney Docket No. P9738PCT, 8 August 2004, 6 pages.	
		International Preliminary Examination Report for International Application No. PCT/US02/40706, Attorney Docket No. P9738PCT, 25 February 2005, 6 pages.	
		BELLAOUAR, A. et al., <i>Supply Voltage Scaling for Temperature Insensitive CMOS Circuit Operation</i> , IEEE Transactions on Circuits and Systems – II: Analog and Digital Signal Processing, Vol. 45, No. 3, March 1998, pp. 415-417	
		DANCY, ABRAM et al., <i>Techniques for Aggressive Supply Voltage Scaling and Efficient Regulation</i> , IEEE 1997 Custom Integrated Circuits Conferences, 5-8 May 1997, pp. 579-586.	
		GONZALEZ, RICARDO et al., <i>Supply and Threshold Voltage Scaling for Low Power CMOS</i> , IEEE Journal of Solid-State Circuits, Vol. 32, No. 8, August 1997, pp. 1210-1216.	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Substitute for Form 1449A/PTO (Modified)				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)				Application Number	10/027,939
				Filing Date	December 20, 2001
				First Named Inventor:	Xia Dai
				Group Art Unit	2116
				Examiner Name	Stefan Stoynov
Sheet <u>2</u> of <u>2</u>				Attorney Docket Number	42390.P9738
<b>OTHER ART – NON PATENT LITERATURE DOCUMENTS</b>					
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T <sup>2</sup>
		Final Office Action for U.S. Patent Application Serial No. 09/161,076, Attorney Docket No. P6440, 24 August 2001, 10 pages.			
		Non-Final Office Action for U.S. Patent Application Serial No. 09/161,076, Attorney Docket No. P6440, 23 April 2001, 10 pages.			
		Non-Final Office Action for U.S. Patent Application Serial No. 09/161,076, Attorney Docket No. P6440, 11 February 2000, 14 pages.			
		Non-Final Office Action for U.S. Patent Application Serial No. 09/978,644, Attorney Docket No. P6440D, 30 January 2003, 6 pages.			
		Corrected Notice of Allowance for U.S. Patent Application Serial No. 09/978,644, Attorney Docket No. P6440D, 11 December 2003, 11 pages.			

Examiner Signature		Date Considered	
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<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.



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**CROSS-REFERENCE TO RELATED APPLICATIONS**

The above-referenced U.S. Patent Application is related to U.S. Patent Application Serial No. 09/161,076, filed September 25, 1998 (now U.S. Patent No. 6,347,379, issued February 12, 2002), entitled REDUCING POWER CONSUMPTION OF AN ELECTRONIC DEVICE to Dai et al., Attorney Docket No. P6440, which is assigned to the assignee of the present invention, and to U.S. Patent Application Serial No. 09/978,644, filed October 18, 2001 (now U.S. Patent No. 6,704,880, issued March 9, 2004), entitled REDUCING SLEEP MODE SUBTHRESHOLD LEAKAGE IN A BATTERY POWERED DEVICE BY MAKING LOW SUPPLY VOLTAGE LESS THAN

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By: Anne Collette  
Anne Collette

Date: May 2, 2005

TWICE THE THRESHOLD VOLTAGE OF ONE DEVICE TRANSISTOR to Dai et al.,  
Attorney Docket No. P6440D, which is assigned to the assignee of the present  
invention.

If there are any charges due, please charge Deposit Account No. 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Date: May 2, 2005



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John Patrick Ward  
Reg. No. 40,216

12400 Wilshire Boulevard  
Seventh Floor  
Los Angeles, CA 90025-1030  
(408) 720-8300